

Fig. 1

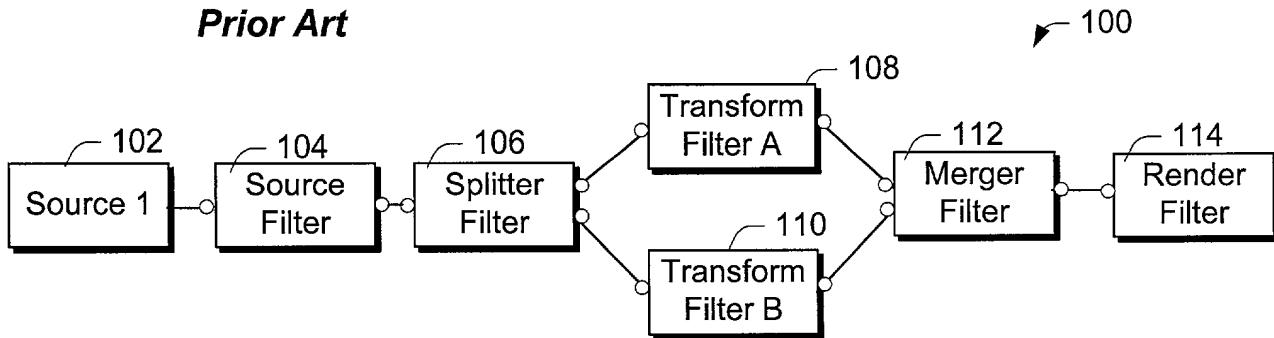
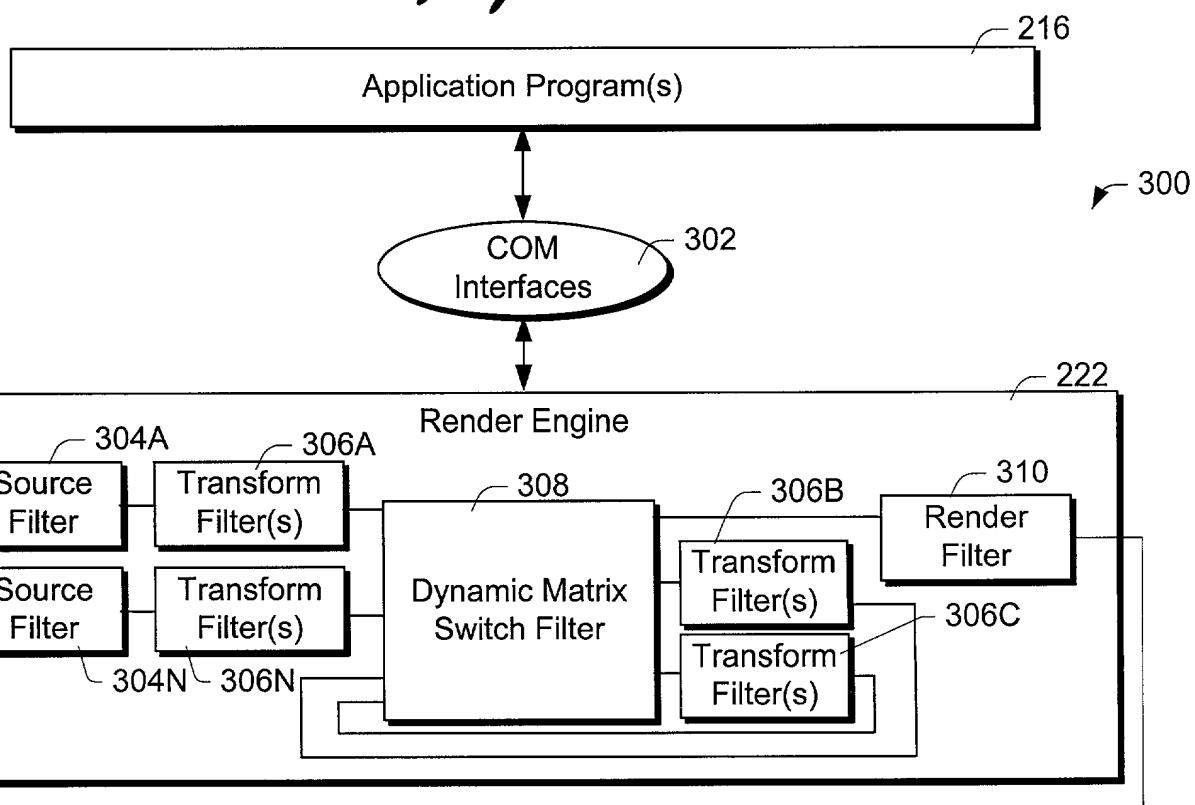
Prior Art

Fig. 3

RENDER ENGINE
STRUCTURE AND METHOD FOR
PROCESSING MULTIPLE SIGNALS

From Source (file, A/V tape, A/V device, antenna, etc.)
From Source (file, A/V tape, A/V device, antenna, etc.)

To Hardware
Renderer

Fig. 2

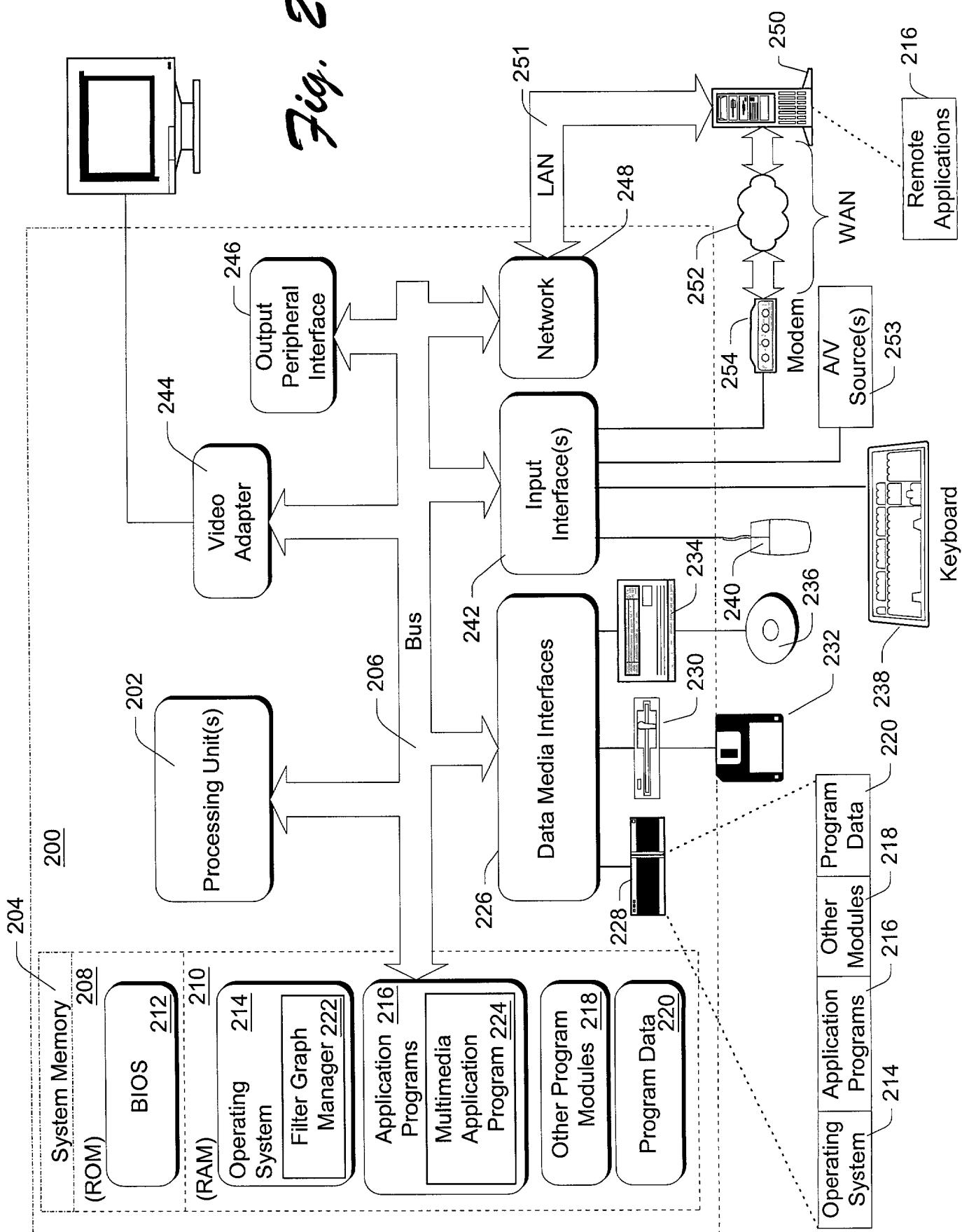


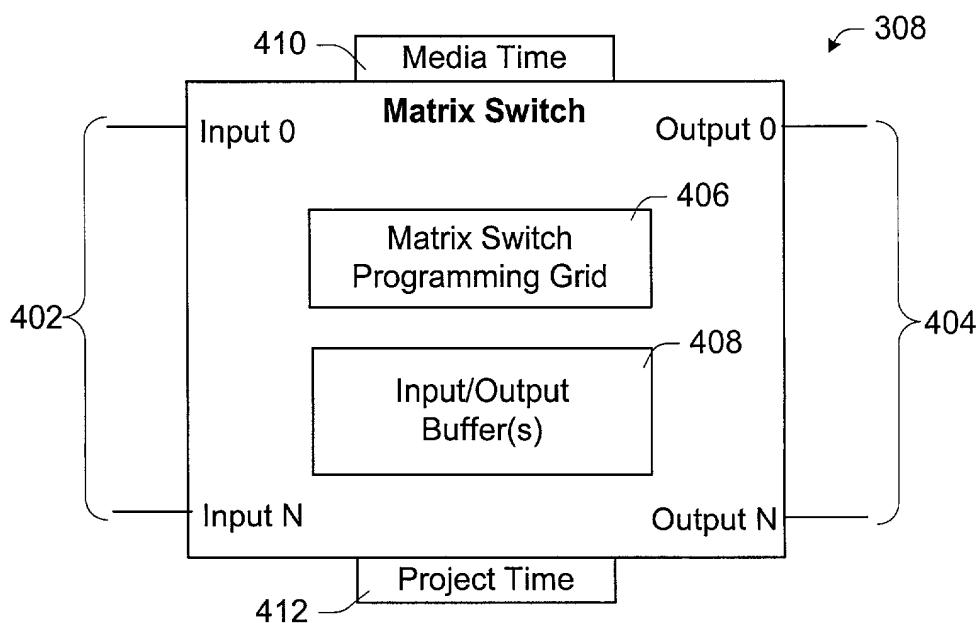
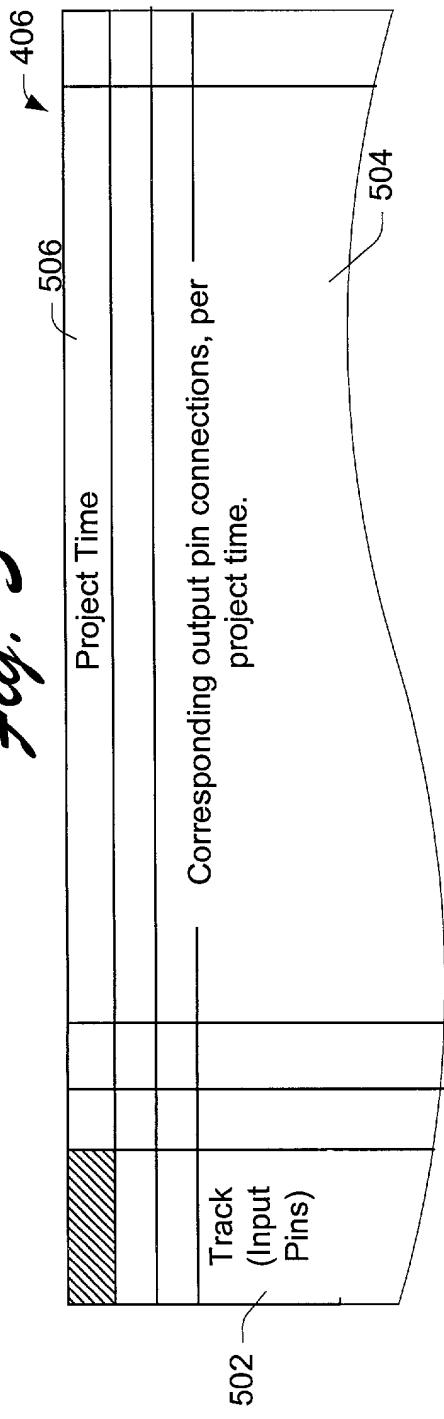
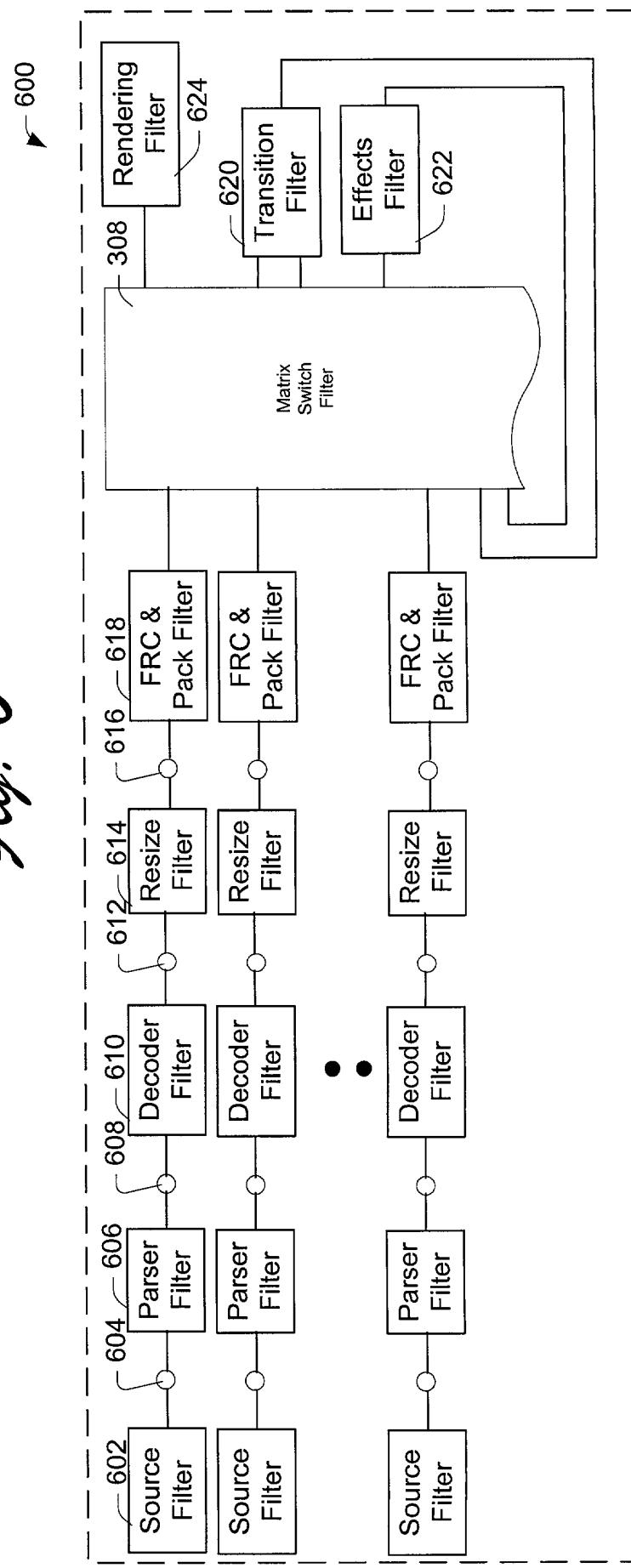
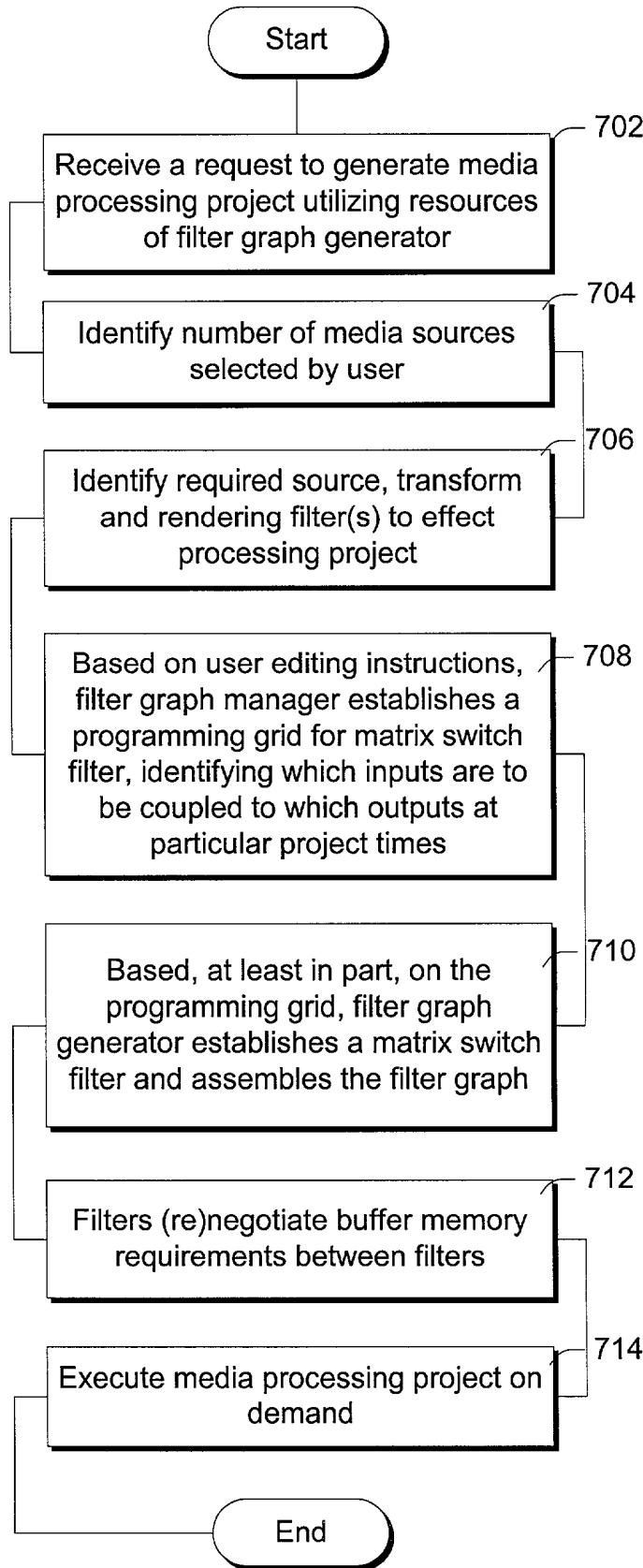
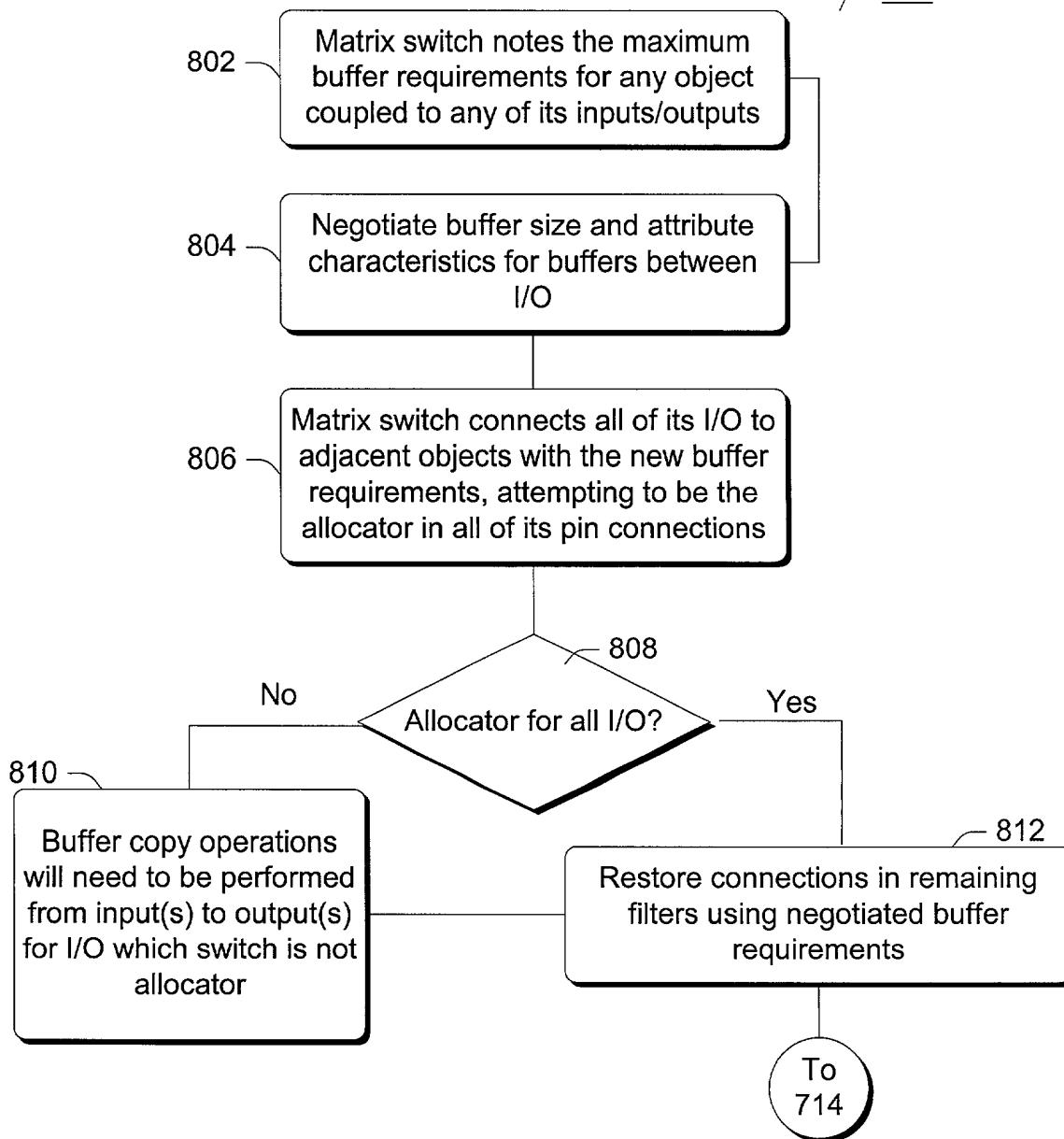
Fig. 4

Fig. 5**Fig. 6**

*Fig. 7*700

*Fig. 8*712

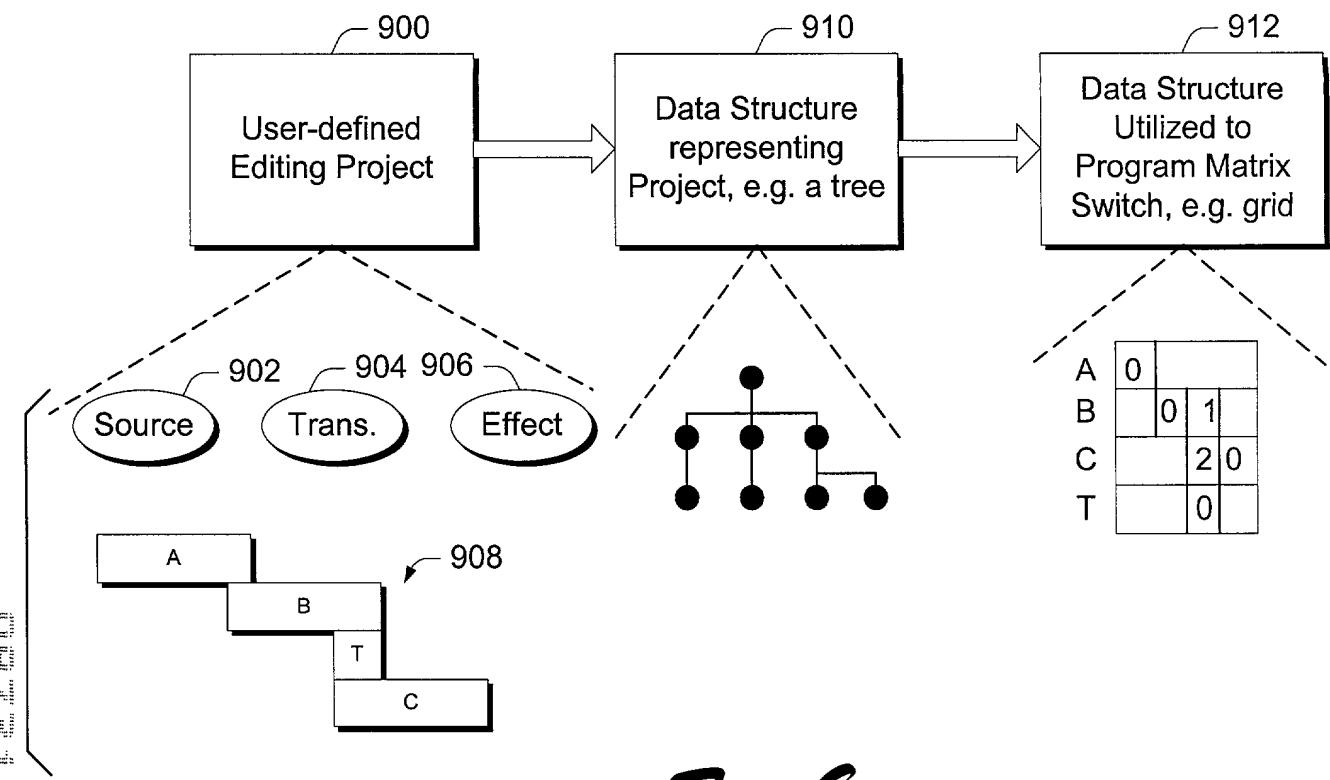


Fig. 9

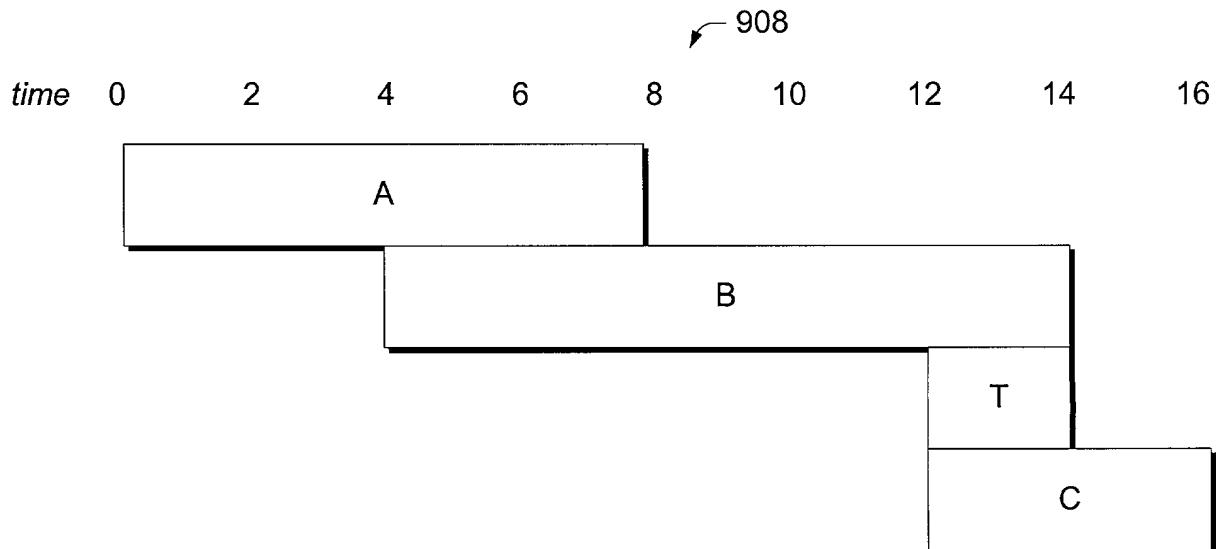


Fig. 10

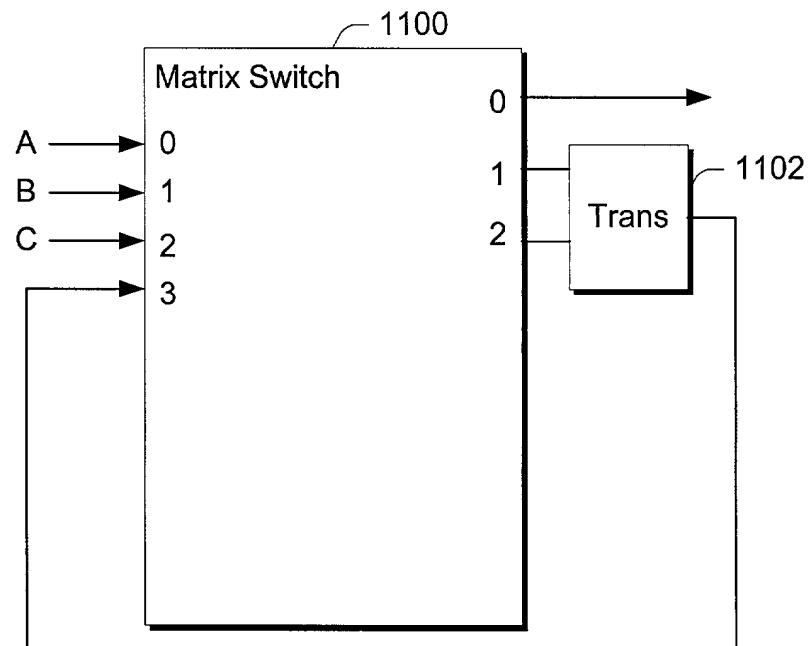


Fig. 11

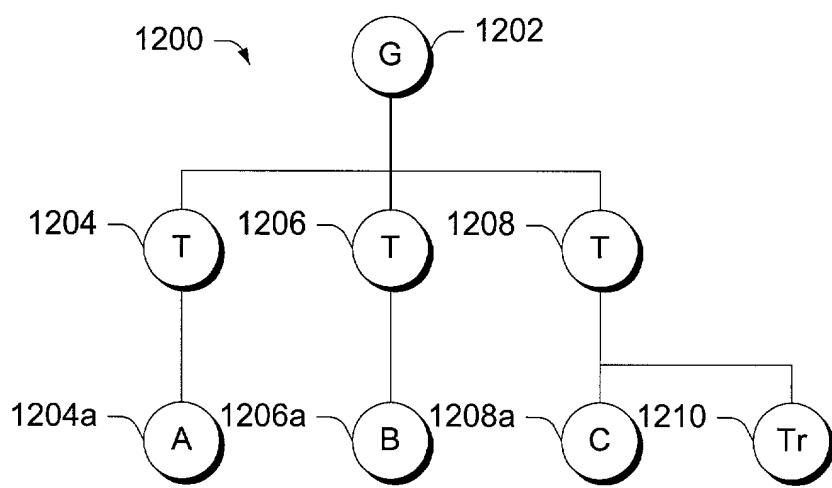


Fig. 12

1300 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|----|----|----|----|
| A | 0 | | | | | | | | |

Fig. 13

1300 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|----|----|----|----|
| A | 0 | | | | | | | | |
| B | | | | | 0 | | | | |

Fig. 14

1300 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|----|----|----|----|
| A | 0 | | | | | | | | |
| B | | | | | 0 | | | | |
| C | | | | | | | 0 | | |

Fig. 15

1300 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|-------|---|---|---|---|---|----|----|----|----|
| A | 0 | | | | | | | | |
| B | | | | | 0 | | | | |
| C | | | | | | | 0 | | |
| Trans | | | | | | 0 | | | |

Fig. 16

1300 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|-------|---|---|---|---|---|-------|-------|----|----|
| A | 0 | | | | | | | | |
| B | | | | 0 | | | [0] 1 | | |
| C | | | | | | [0] 2 | 0 | | |
| Trans | | | | | 0 | | | | |

Fig. 17

1300 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|-----------|---|---|---|---|---|----|-------|----|----|
| (0) A | 0 | | | | | | | | |
| (1) B | | | | | | | [0] 1 | | |
| (2) C | | | | | | | [0] 2 | 0 | |
| (3) Trans | | | | | | 0 | | | |

Fig. 18

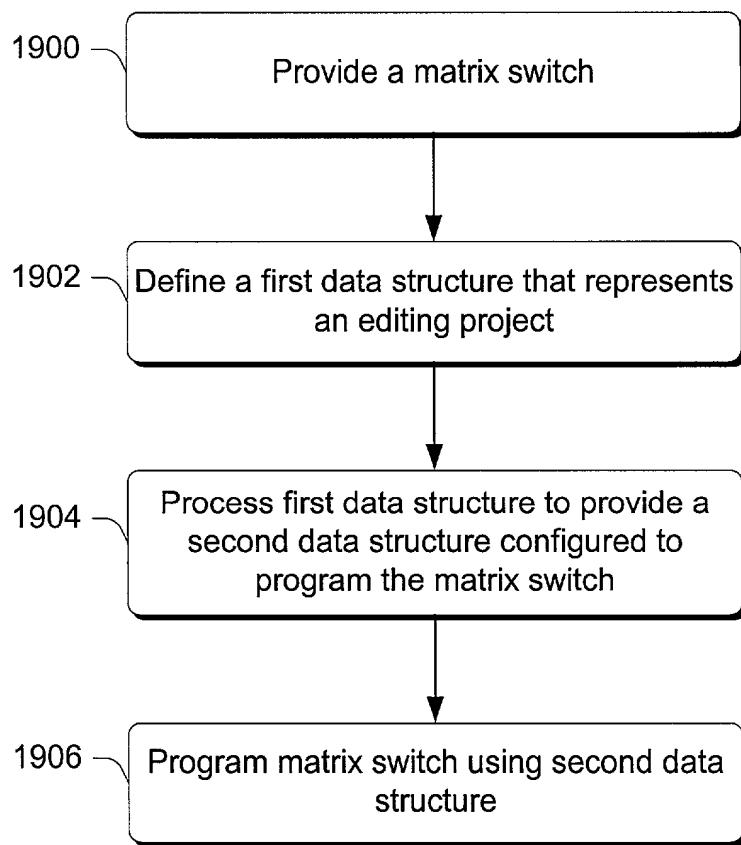


Fig. 19

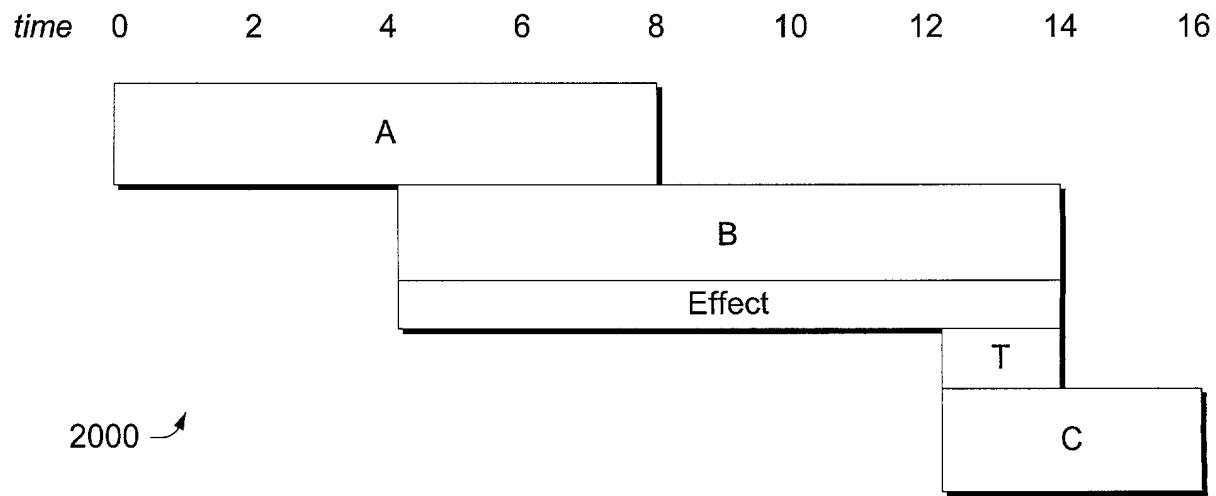


Fig. 20

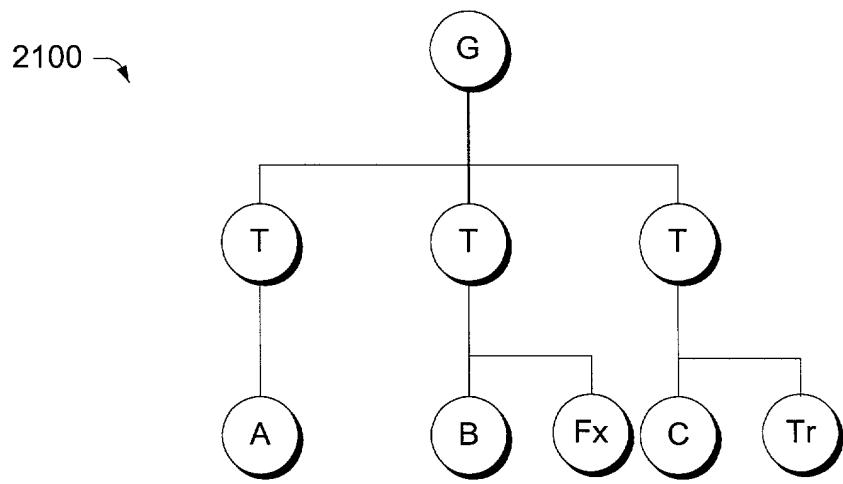


Fig. 21

2200 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|----|---|---|---|---|-------|----|----|----|----|
| A | 0 | | | | | | | | |
| B | | | | | [0] 1 | | | | |
| Fx | | | | | 0 | | | | |

Fig. 22

2200 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|--------|---|---|---|---|-------|----|-------|----|----|
| (0) A | 0 | | | | | | | | |
| (1) B | | | | | [0] 1 | | | | |
| (2) Fx | | | | | 0 | | [0] 2 | | |
| (3) C | | | | | | | [0] 3 | 0 | |
| (4) T | | | | | | 0 | | | |

Fig. 23

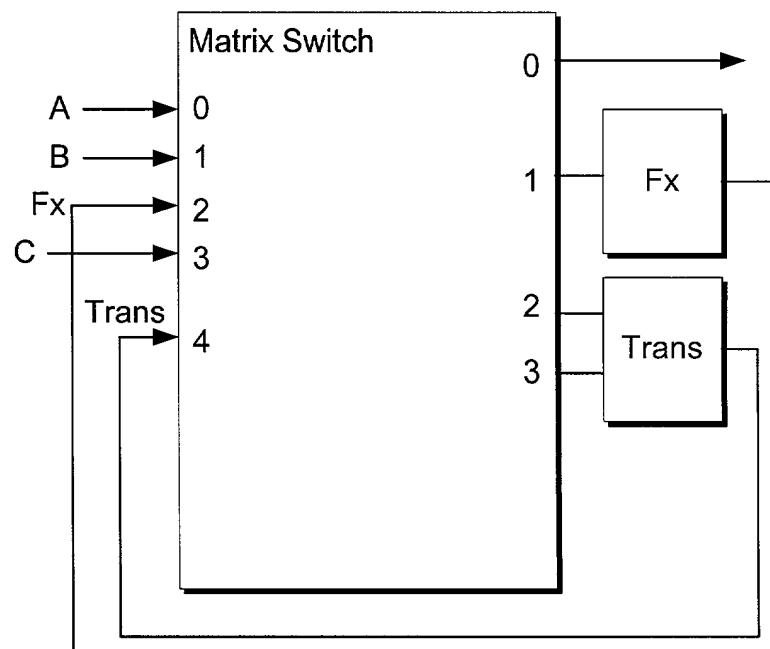


Fig. 24

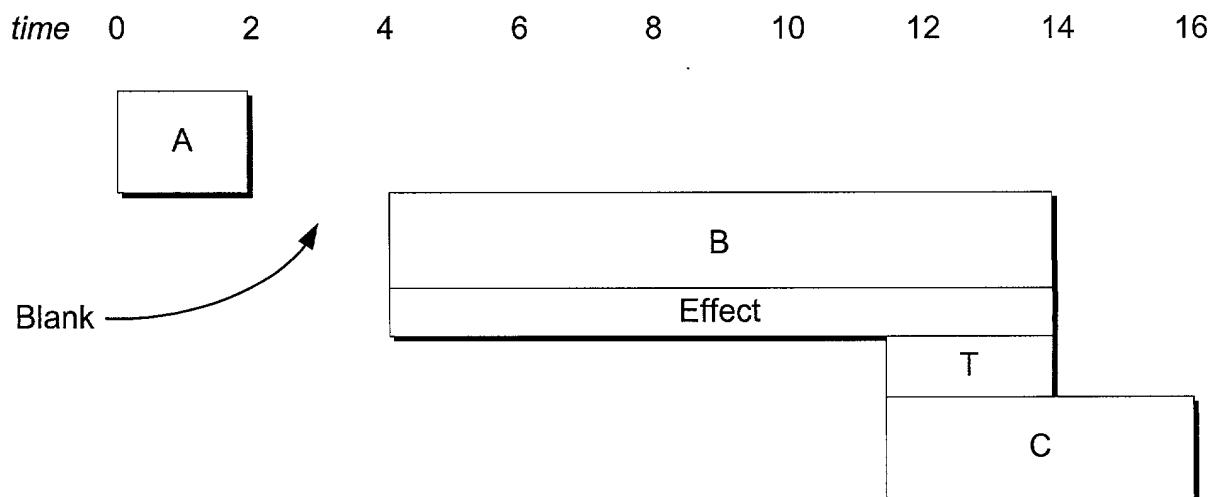


Fig. 25

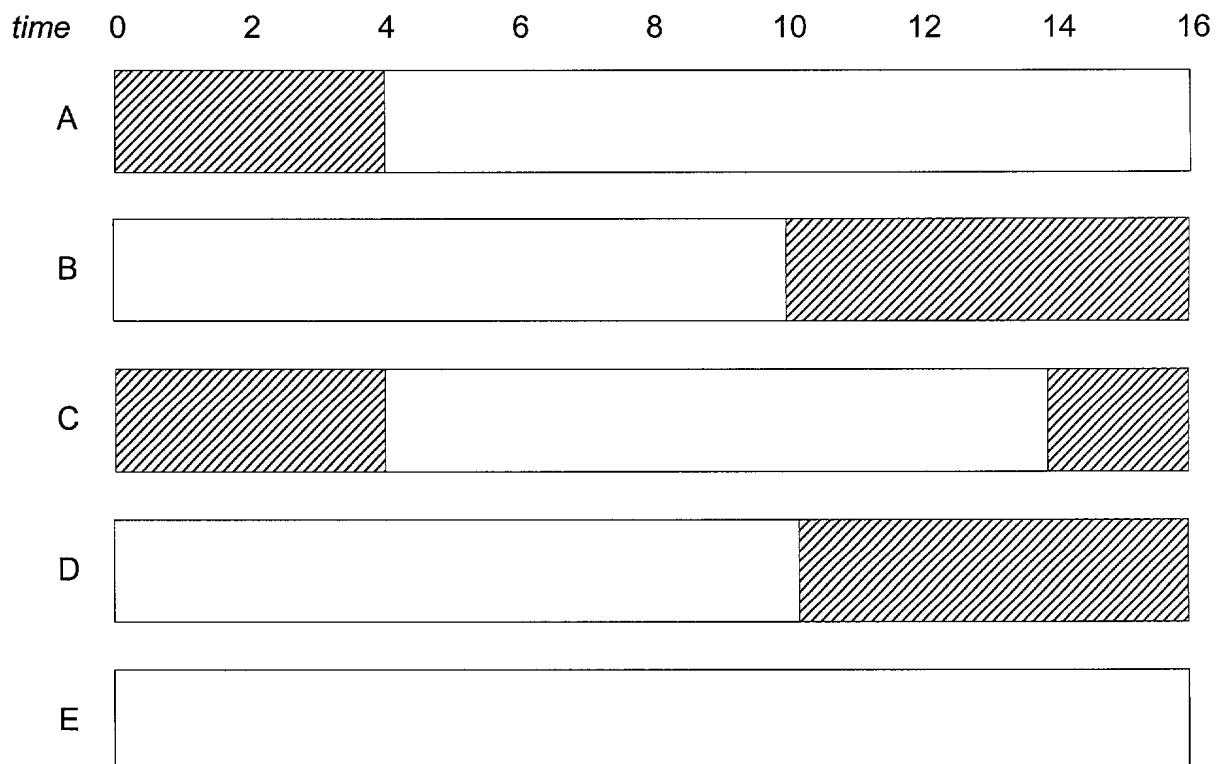
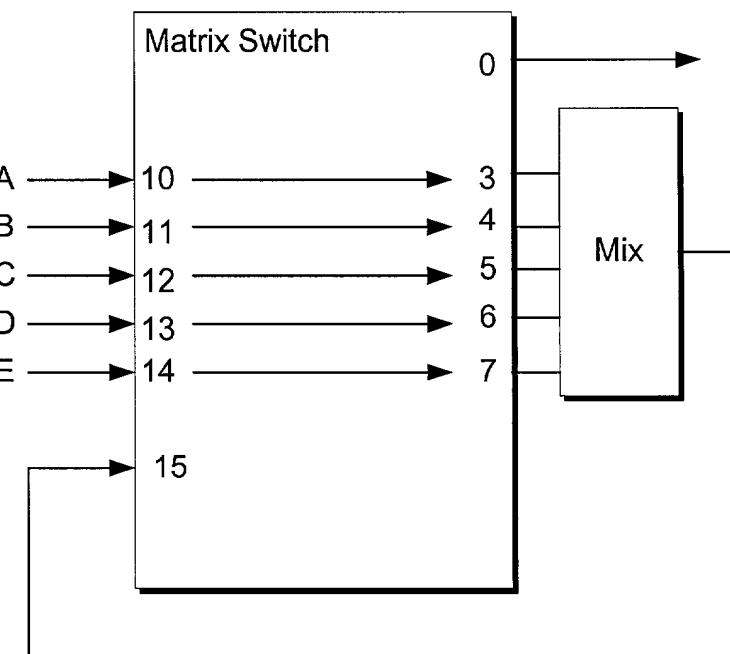


Fig. 26

2700 ↘
2702 ↗

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|----------|---|---|-------|-------|-------|----|----|----|----|
| (10) A | | | | [0] 3 | | | | | |
| (11) B | | | [0] 4 | | | | | | |
| (12) C | | | | [0] 5 | | | | | |
| (13) D | | | | [0] 6 | | | | | |
| (14) E | | | | | [0] 7 | | | | |
| (15) Mix | | | | | | 0 | | | |

Fig. 27*Fig. 28*

MS1-638US

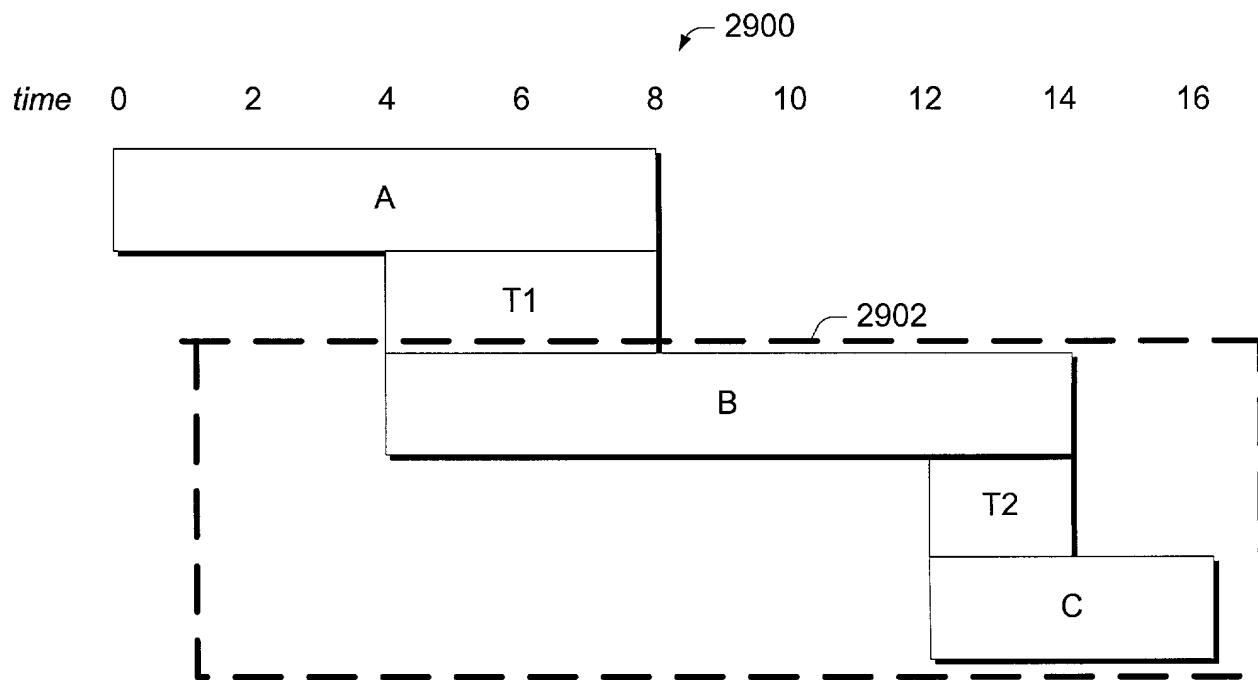


Fig. 29

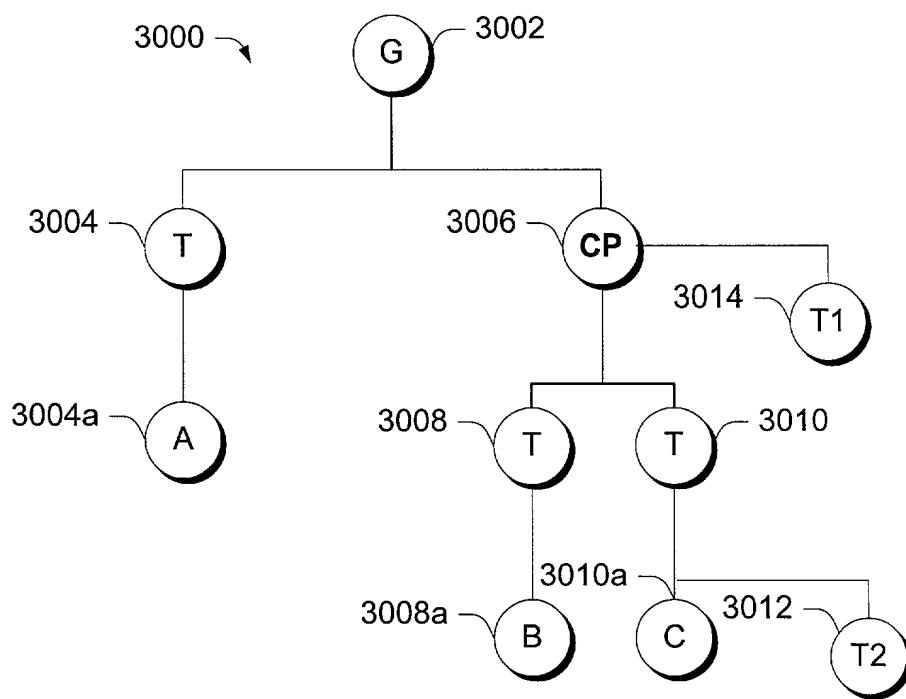


Fig. 30

3100 ↘

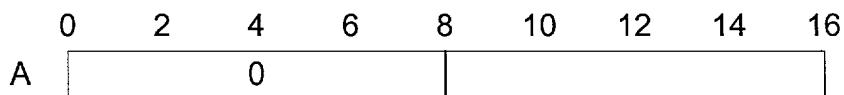


Fig. 31

3100 ↘

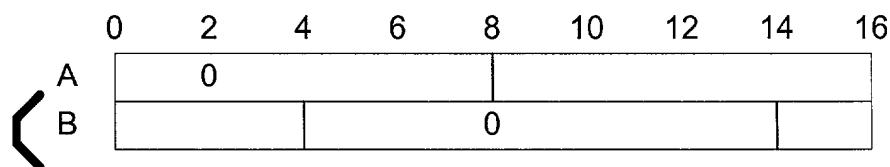


Fig. 32

3100 ↘

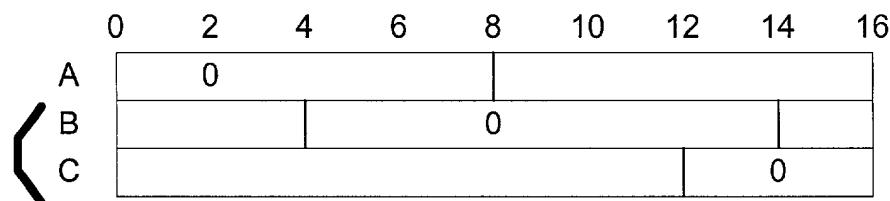


Fig. 33

3100 ↘

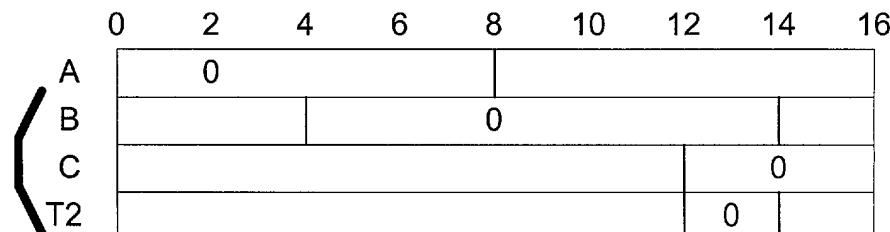


Fig. 34

3100 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|----|---|---|---|---|---|----|----|----|----|
| A | 0 | | | | | | | | |
| B | | 4 | | | 0 | | | 1 | |
| C | | | | | | | 2 | 0 | |
| T2 | | | | | | | 0 | | |

Fig. 35

3100 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|----|---|---|---|---|---|----|----|----|----|
| A | 0 | | | | | | | | |
| B | | 4 | | | 0 | | | 1 | |
| C | | | | | | | 2 | 0 | |
| T2 | | | | | | | 0 | | |
| T1 | | | | 0 | | | | | |

Fig. 36

3100 ↘

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|-----|----|---|---|---|---|----|----|----|----|
| (0) | A | 0 | | 3 | | | | | |
| (1) | B | | 4 | | 0 | | 1 | | |
| (2) | C | | | | | | 2 | 0 | |
| (3) | T2 | | | | | | 0 | | |
| (4) | T1 | | | 0 | | | | | |

Fig. 37

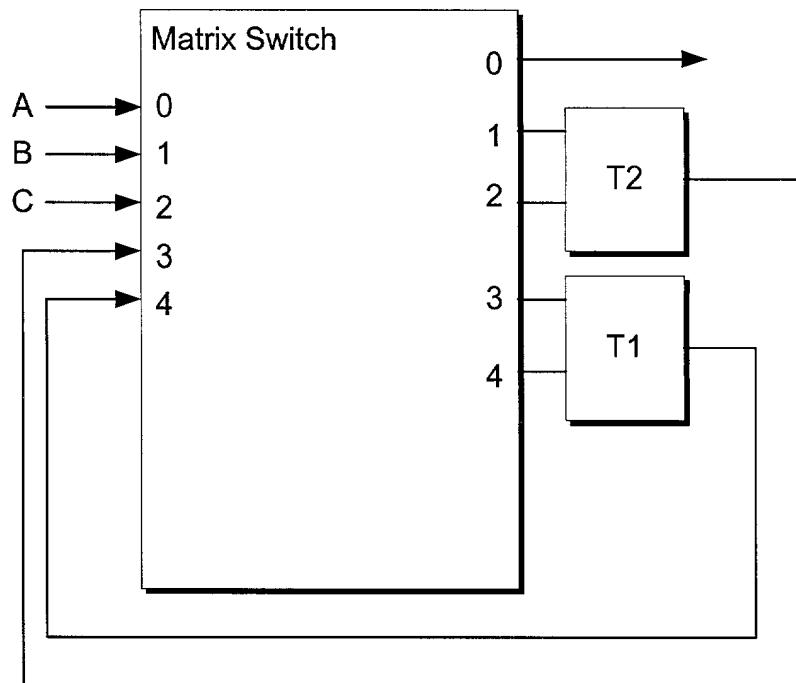


Fig. 38

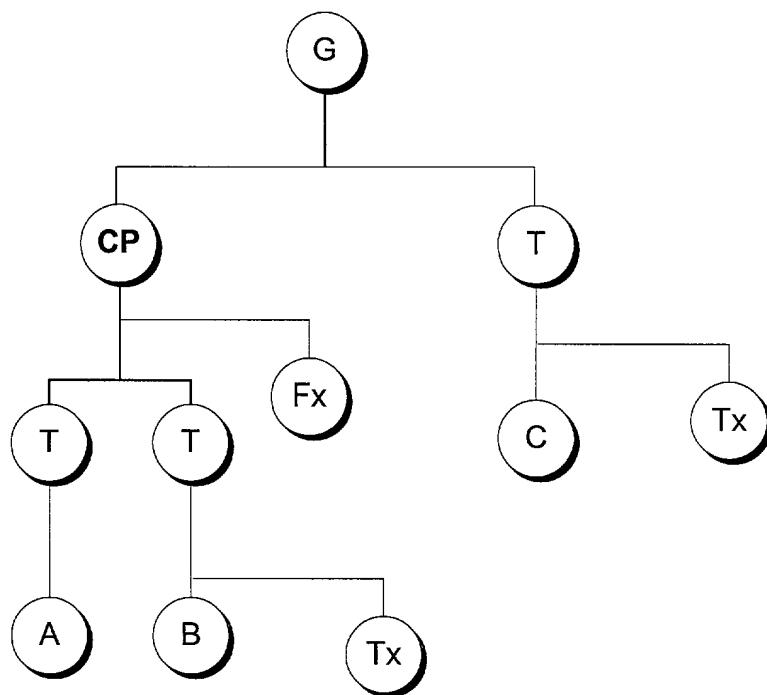


Fig. 38a

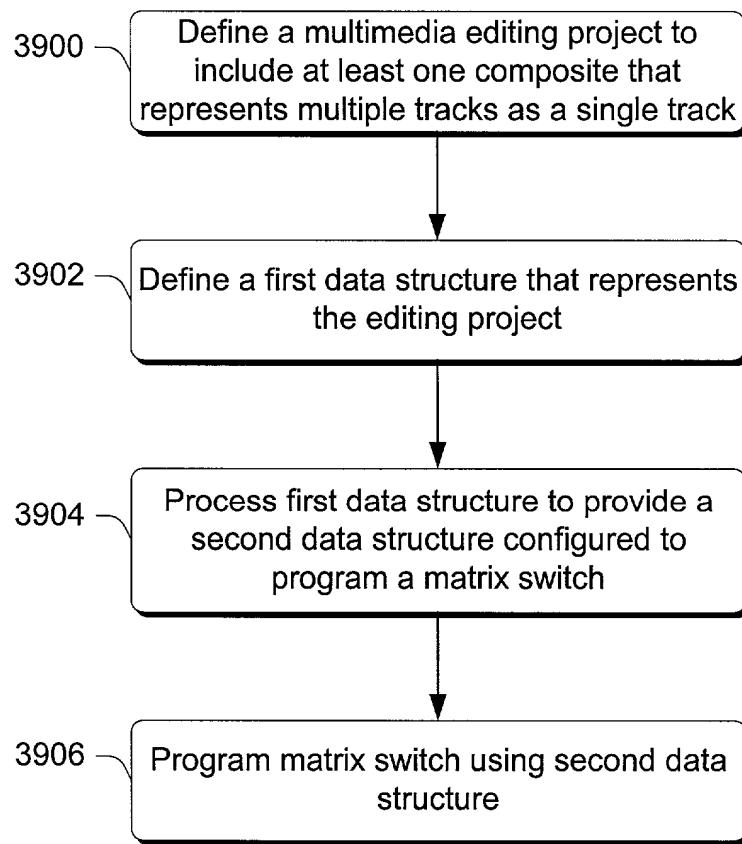


Fig. 39

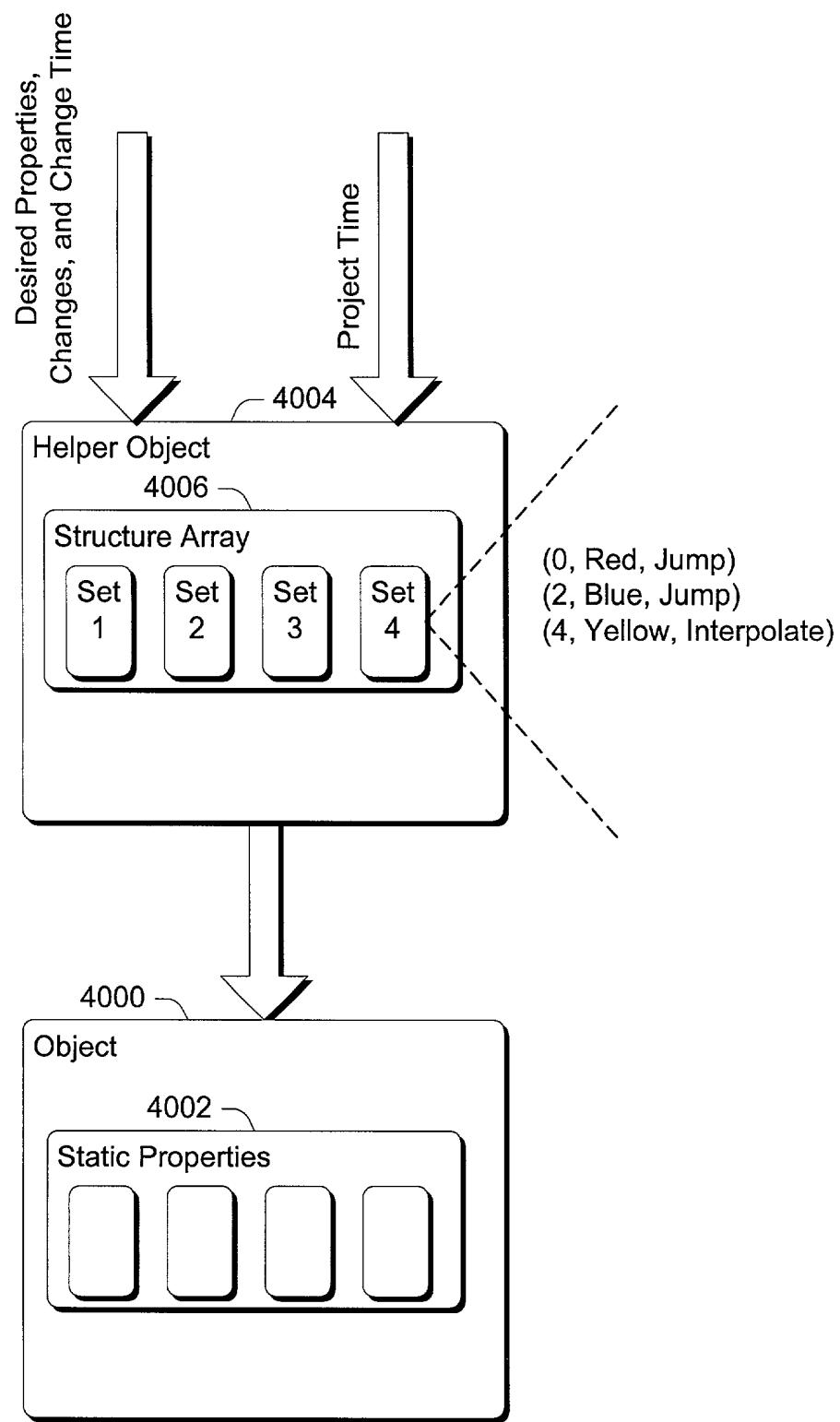
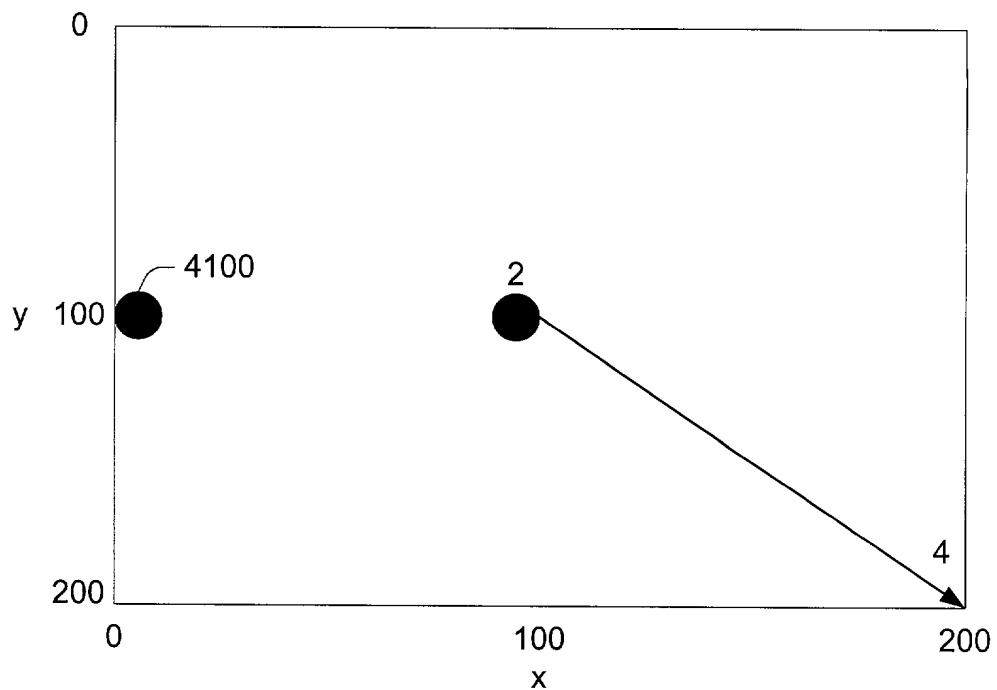


Fig. 40



| | |
|--|--|
| <p>4102</p> <p>x-direction</p> <ul style="list-style-type: none">(0, 0, jump)(2, 100, jump)(4, 200, interpolate) | <p>y - direction</p> <ul style="list-style-type: none">(0, 100, jump)(2, 100, jump)(4, 200, interpolate) |
|--|--|

Fig. 41

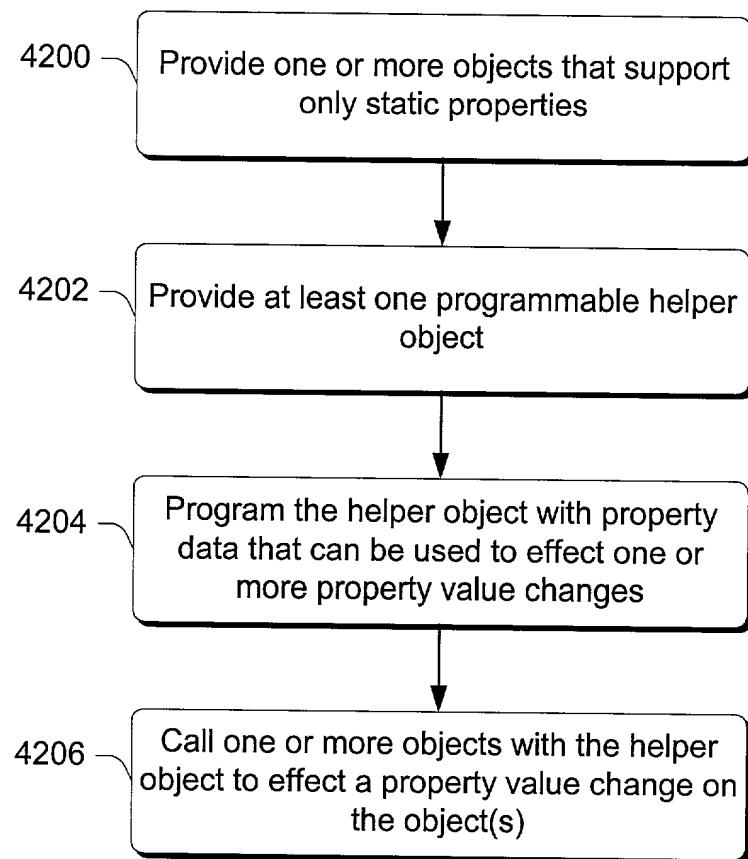


Fig. 42

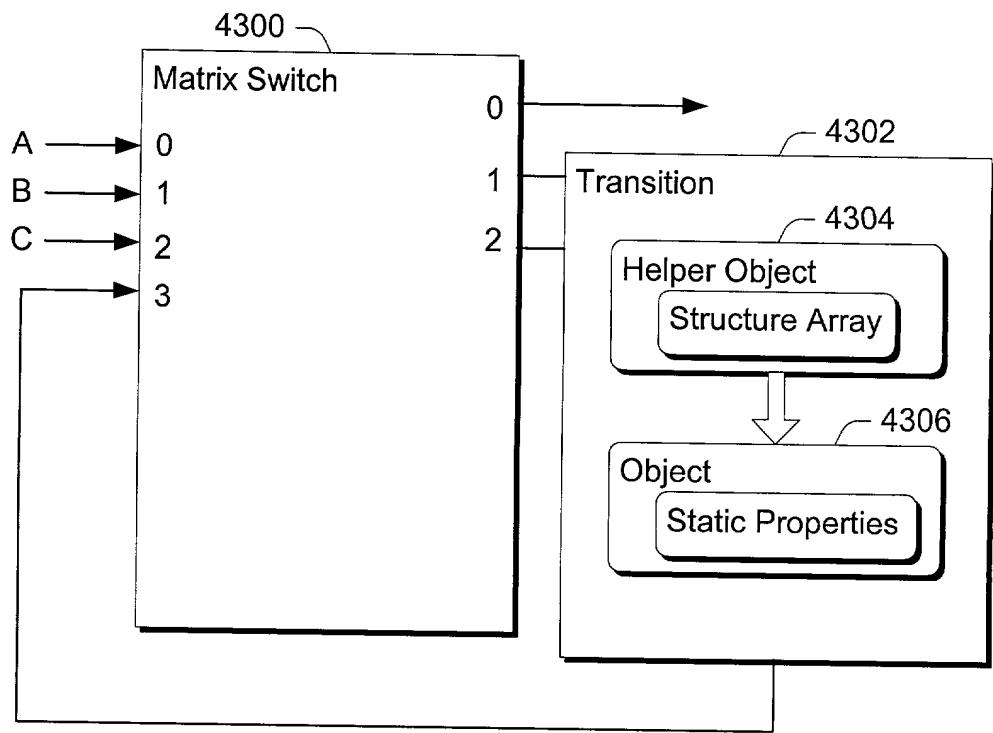


Fig. 43